

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250263

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120940 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11195.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

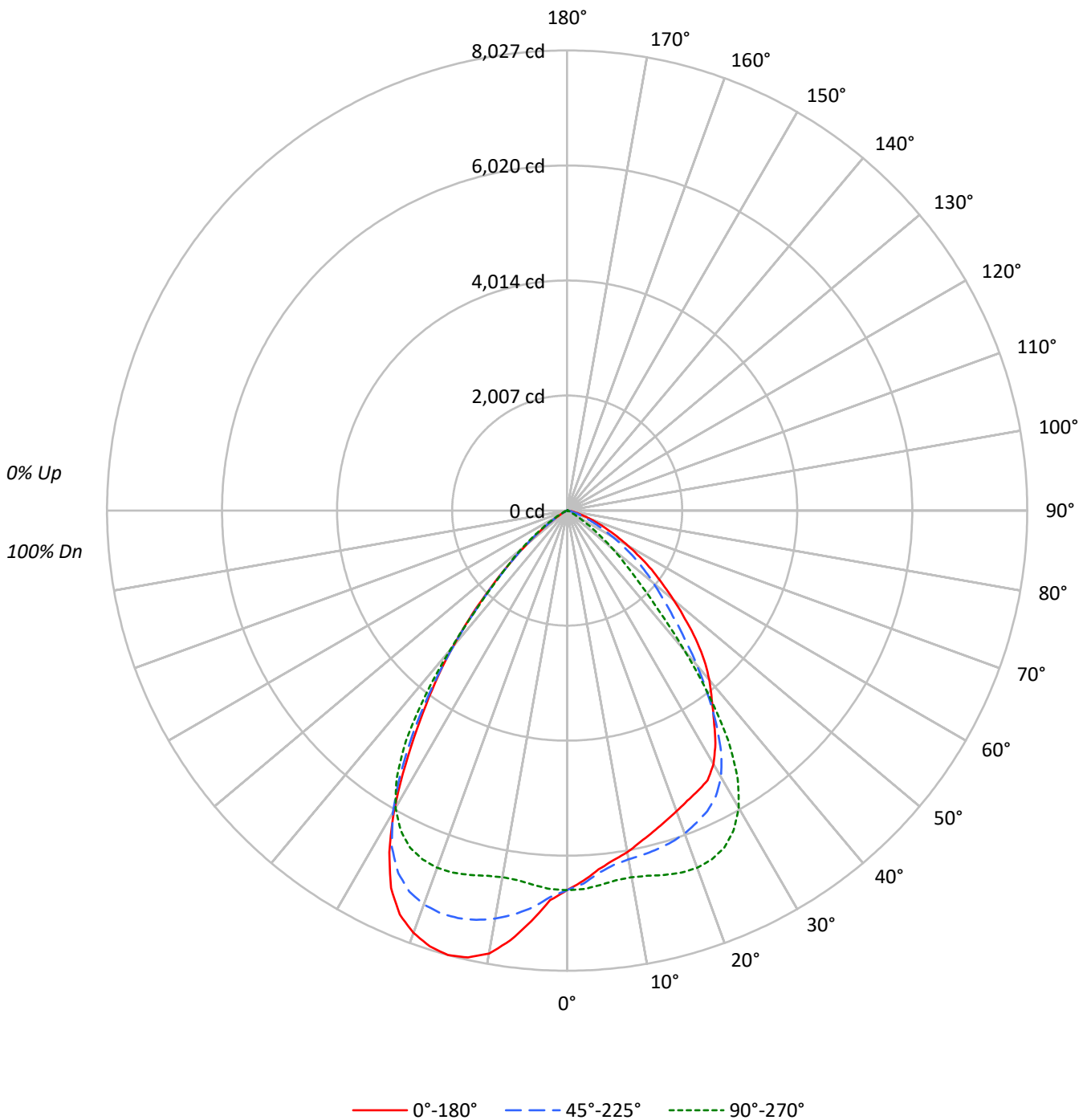
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	204124	204124	204124
5°	194469	202988	222526
10°	189453	203303	245630
15°	185157	210041	256258
20°	183119	217631	257220
25°	183550	220704	247226
30°	181843	213128	214997
35°	168032	184449	168262
40°	155276	127879	124767
45°	138267	77162	79722
50°	116339	49714	45114
55°	96787	27273	20623
60°	75549	11823	6488
65°	55753	5874	3159
70°	38769	3624	1388
75°	23590	739	0
80°	17030	1101	0
85°	10933	1097	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.4	5.7
10°-20°	1904.6	17.0
20°-30°	2916.7	26.1
30°-40°	2859.3	25.5
40°-50°	1721.9	15.4
50°-60°	792.5	7.1
60°-70°	278.4	2.5
70°-80°	72.8	0.7
80°-90°	12.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5457.6	48.8
0°-40°	8316.9	74.3
0°-60°	10831.4	96.8
0°-90°	11195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11195.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6620	6620	6620	6620	6620	
5°	6282	6341	6558	6951	7189	593
15°	5800	6112	6579	7359	8027	1639
25°	5395	5784	6487	6975	7266	2485
35°	4464	4526	4900	4618	4470	2796
45°	3171	2611	1769	1782	1828	2431
55°	1800	1426	507	399	384	1606
65°	764	529	80	40	43	778
75°	198	114	6	0	0	240
85°	31	15	3	0	0	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6
2.5°	6464.9	6471.2	6471.2	6471.2	6483.5	6486.7	6483.5	6486.7	6492.8	6514.5	6523.8
5°	6282.5	6273.2	6279.4	6276.2	6291.8	6301.1	6294.8	6304.1	6325.8	6341.3	6356.7
7.5°	6152.6	6152.6	6152.6	6158.7	6168.0	6186.6	6183.5	6189.7	6211.3	6232.9	6254.6
10°	6050.5	6047.4	6047.4	6062.8	6075.2	6096.8	6103.1	6121.7	6149.4	6177.3	6202.0
12.5°	5917.4	5920.6	5936.0	5951.6	5979.3	6013.3	6031.9	6056.7	6100.0	6146.4	6174.3
15°	5799.9	5803.0	5815.5	5846.3	5880.4	5920.6	5960.7	6001.0	6053.6	6112.4	6161.9
17.5°	5685.5	5688.5	5697.8	5731.9	5775.2	5827.8	5874.2	5926.7	5994.9	6062.8	6124.7
20°	5580.3	5577.2	5592.6	5623.6	5679.4	5728.8	5775.2	5837.1	5911.3	5994.9	6065.9
22.5°	5478.2	5478.2	5493.7	5524.7	5574.2	5623.6	5673.1	5738.0	5812.3	5892.7	5976.3
25°	5394.7	5391.6	5413.2	5428.8	5465.8	5515.4	5567.9	5620.5	5694.8	5784.5	5864.9
27.5°	5305.0	5302.0	5305.0	5323.6	5357.6	5394.7	5434.9	5481.4	5543.2	5617.5	5694.8
30°	5107.0	5110.1	5110.1	5125.6	5144.2	5184.3	5206.0	5252.4	5308.1	5370.0	5438.1
32.5°	4813.2	4816.2	4816.2	4822.5	4837.9	4856.5	4875.1	4909.0	4952.3	5004.9	5066.8
35°	4463.7	4463.7	4460.5	4463.7	4473.0	4473.0	4488.4	4473.0	4494.6	4525.6	4571.9
37.5°	4141.9	4135.7	4129.6	4123.3	4114.0	4098.6	4077.0	4039.8	4030.5	4018.2	4021.2
40°	3857.4	3854.3	3835.7	3820.2	3789.2	3752.2	3699.6	3634.7	3582.1	3520.2	3467.6
42.5°	3541.9	3538.7	3523.3	3495.4	3461.4	3405.8	3322.2	3235.6	3130.5	3037.7	2941.8
45°	3170.6	3179.9	3158.2	3127.3	3087.1	3034.5	2941.8	2836.5	2731.3	2610.7	2490.0
47.5°	2783.9	2780.9	2765.4	2746.9	2712.9	2660.3	2598.4	2483.9	2372.5	2261.2	2137.5
50°	2425.1	2412.8	2406.5	2388.1	2366.4	2323.1	2258.1	2165.2	2066.3	1961.1	1846.7
52.5°	2084.9	2084.9	2069.4	2057.0	2038.4	2004.4	1948.8	1874.6	1791.0	1692.0	1571.4
55°	1800.3	1794.1	1778.7	1763.2	1744.6	1722.9	1673.5	1611.6	1521.9	1426.0	1320.8
57.5°	1497.2	1494.0	1487.9	1469.3	1460.0	1438.4	1382.7	1320.8	1243.6	1160.0	1073.3
60°	1225.0	1212.6	1200.1	1187.8	1172.4	1150.7	1113.6	1061.0	996.0	921.8	835.2
62.5°	980.6	999.1	962.0	962.0	931.1	912.5	878.5	847.6	779.5	711.5	637.2
65°	764.1	764.1	748.5	736.2	717.6	695.9	661.9	631.0	581.5	528.9	476.3
67.5°	584.7	581.5	566.1	553.7	538.2	525.8	501.1	464.0	426.9	383.6	340.2
70°	430.0	426.9	423.7	402.1	389.7	374.3	355.7	331.0	303.2	272.2	232.0
72.5°	309.3	309.3	300.1	290.8	278.5	266.0	247.5	232.0	207.3	185.6	157.8
75°	198.0	194.9	194.9	179.4	179.4	160.8	148.5	139.2	126.8	114.5	89.8
77.5°	142.3	139.2	136.1	129.9	123.8	117.5	108.2	95.9	86.6	74.2	64.9
80°	95.9	89.8	86.6	86.6	77.3	74.2	77.3	58.8	55.6	46.3	40.2
82.5°	58.8	58.8	55.6	55.6	52.6	49.5	40.2	40.2	37.2	34.0	27.9
85°	30.9	40.2	27.9	30.9	27.9	30.9	27.9	21.6	18.6	15.4	15.4
87.5°	18.6	12.4	12.4	18.6	15.4	12.4	12.4	12.4	9.3	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6
2.5°	6517.6	6539.3	6536.1	6564.0	6573.3	6594.9	6594.9	6610.3	6619.6	6641.3	6659.9
5°	6362.9	6396.9	6406.2	6440.2	6468.1	6502.1	6523.8	6557.7	6588.7	6635.2	6678.5
7.5°	6267.1	6294.8	6313.4	6353.7	6384.6	6421.6	6458.8	6505.2	6548.5	6604.2	6666.1
10°	6220.6	6257.8	6285.5	6325.8	6362.9	6403.2	6440.2	6492.8	6542.3	6613.5	6681.5
12.5°	6208.2	6251.5	6285.5	6341.3	6378.4	6421.6	6464.9	6523.8	6576.3	6650.6	6728.0
15°	6208.2	6267.1	6313.4	6375.3	6418.6	6474.2	6520.7	6579.4	6638.2	6715.5	6789.7
17.5°	6195.9	6267.1	6325.8	6396.9	6452.6	6508.3	6567.0	6622.8	6684.6	6758.9	6842.3
20°	6146.4	6236.1	6307.2	6390.7	6449.5	6511.4	6570.2	6632.0	6697.0	6774.3	6845.5
22.5°	6059.8	6165.0	6245.4	6335.1	6403.2	6464.9	6523.8	6585.6	6656.8	6731.0	6805.3
25°	5945.3	6044.3	6131.0	6223.7	6291.8	6359.8	6415.5	6486.7	6551.6	6622.8	6681.5
27.5°	5772.0	5877.2	5960.7	6056.7	6118.5	6183.5	6229.9	6288.7	6350.6	6409.3	6455.8
30°	5512.3	5608.2	5694.8	5781.3	5843.2	5889.7	5939.1	5985.6	6025.8	6065.9	6106.1
32.5°	5131.7	5218.4	5302.0	5382.3	5431.8	5472.1	5509.1	5537.0	5558.6	5580.3	5583.3
35°	4609.1	4680.1	4732.7	4803.9	4850.4	4887.4	4887.4	4899.8	4896.7	4887.4	4878.1
37.5°	4024.4	4052.2	4073.8	4101.7	4104.8	4104.8	4086.3	4070.8	4046.1	4039.8	4021.2
40°	3415.0	3377.9	3350.0	3312.9	3291.3	3244.8	3204.7	3176.8	3136.6	3130.5	3124.2
42.5°	2836.5	2749.9	2672.6	2607.7	2533.5	2468.4	2409.7	2366.4	2335.5	2332.3	2335.5
45°	2366.4	2267.4	2152.9	2063.3	1979.7	1899.3	1822.0	1769.4	1741.5	1735.3	1741.5
47.5°	2010.7	1896.2	1784.8	1682.7	1593.1	1503.3	1426.0	1354.8	1320.8	1311.5	1308.5
50°	1729.2	1611.6	1494.0	1388.8	1289.9	1200.1	1104.3	1036.3	993.0	977.5	965.1
52.5°	1453.9	1348.7	1228.0	1119.8	1020.7	915.6	816.6	739.2	695.9	677.5	665.0
55°	1212.6	1107.5	996.0	890.9	785.7	680.5	581.5	507.3	460.9	439.3	423.7
57.5°	968.2	869.2	773.4	668.2	581.5	479.5	380.4	315.5	275.3	250.6	238.2
60°	748.5	671.2	587.7	501.1	417.6	334.1	253.6	191.7	160.8	142.3	126.8
62.5°	566.1	501.1	445.4	371.1	306.2	235.0	173.3	123.8	95.9	80.5	74.2
65°	408.3	358.8	309.3	262.9	216.6	164.0	117.5	80.5	55.6	46.3	43.3
67.5°	290.8	250.6	213.4	182.5	148.5	117.5	83.5	55.6	43.3	37.2	34.0
70°	204.1	173.3	148.5	120.7	98.9	77.3	64.9	40.2	24.7	27.9	21.6
72.5°	136.1	114.5	102.1	83.5	68.0	55.6	40.2	27.9	27.9	21.6	18.6
75°	74.2	68.0	52.6	40.2	34.0	30.9	12.4	6.2	3.1	9.3	3.1
77.5°	52.6	46.3	40.2	34.0	27.9	21.6	12.4	12.4	9.3	12.4	6.2
80°	34.0	27.9	24.7	24.7	15.4	9.3	6.2	6.2	9.3	3.1	3.1
82.5°	21.6	18.6	15.4	15.4	15.4	9.3	9.3	9.3	9.3	6.2	6.2
85°	12.4	9.3	6.2	6.2	3.1	6.2	0.0	3.1	3.1	0.0	0.0
87.5°	6.2	3.1	3.1	3.1	3.1	0.0	0.0	3.1	0.0	3.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6	6619.6
2.5°	6672.2	6684.6	6700.1	6712.4	6740.3	6746.4	6758.9	6771.3	6780.6	6789.7	6792.9
5°	6715.5	6762.0	6805.3	6851.6	6910.4	6950.7	6997.0	7037.2	7077.5	7111.5	7136.2
7.5°	6728.0	6799.0	6864.1	6944.4	7031.0	7105.4	7182.6	7259.9	7340.4	7402.3	7454.9
10°	6752.7	6839.3	6922.8	7018.7	7130.1	7229.0	7324.9	7427.0	7529.1	7615.7	7693.1
12.5°	6796.0	6891.8	6981.6	7086.8	7201.2	7312.5	7417.7	7532.1	7640.5	7736.4	7823.0
15°	6867.1	6956.8	7043.5	7142.4	7256.9	7359.0	7464.2	7575.4	7683.8	7782.7	7863.2
17.5°	6913.5	6997.0	7083.6	7173.4	7269.2	7362.0	7461.0	7560.0	7659.0	7748.7	7823.0
20°	6913.5	6994.0	7058.9	7139.4	7229.0	7309.5	7389.9	7476.5	7563.1	7637.3	7708.5
22.5°	6857.8	6935.1	6984.7	7046.5	7123.8	7191.9	7235.2	7331.1	7396.0	7461.0	7513.6
25°	6728.0	6783.6	6823.9	6867.1	6929.0	6975.4	7012.5	7068.2	7133.1	7157.9	7195.0
27.5°	6492.8	6533.0	6554.7	6564.0	6594.9	6619.6	6625.9	6650.6	6678.5	6684.6	6700.1
30°	6121.7	6124.7	6115.4	6112.4	6096.8	6078.4	6075.2	6072.1	6059.8	6047.4	6050.5
32.5°	5561.7	5546.3	5509.1	5469.0	5428.8	5385.5	5360.7	5329.7	5311.1	5292.7	5271.0
35°	4837.9	4800.8	4748.2	4698.7	4652.4	4618.2	4562.6	4544.0	4525.6	4500.7	4494.6
37.5°	3987.2	3965.6	3916.1	3879.0	3854.3	3838.8	3810.9	3792.4	3792.4	3783.1	3776.9
40°	3108.7	3102.6	3084.0	3093.3	3081.0	3087.1	3084.0	3077.8	3093.3	3093.3	3099.5
42.5°	2332.3	2335.5	2344.8	2350.9	2369.5	2372.5	2388.1	2388.1	2397.4	2406.5	2412.8
45°	1735.3	1747.8	1747.8	1760.1	1778.7	1781.8	1787.9	1791.0	1797.2	1812.7	1818.8
47.5°	1302.3	1305.3	1305.3	1308.5	1314.6	1320.8	1317.8	1320.8	1330.1	1323.9	1330.1
50°	962.0	965.1	955.8	946.5	955.8	955.8	952.8	943.5	952.8	940.4	946.5
52.5°	655.8	652.7	643.4	646.5	640.3	637.2	637.2	631.0	631.0	631.0	618.7
55°	414.6	414.6	408.3	408.3	405.3	399.0	396.0	392.8	389.7	386.7	386.7
57.5°	232.0	235.0	225.9	222.7	225.9	222.7	216.6	216.6	216.6	207.3	213.4
60°	126.8	123.8	120.7	117.5	114.5	117.5	117.5	111.4	111.4	111.4	114.5
62.5°	68.0	68.0	64.9	64.9	61.9	61.9	68.0	58.8	61.9	58.8	61.9
65°	37.2	46.3	34.0	34.0	43.3	40.2	37.2	37.2	40.2	34.0	37.2
67.5°	40.2	27.9	24.7	27.9	24.7	24.7	24.7	30.9	27.9	21.6	27.9
70°	18.6	21.6	21.6	15.4	24.7	12.4	21.6	12.4	18.6	15.4	18.6
72.5°	18.6	18.6	18.6	12.4	18.6	12.4	15.4	15.4	12.4	12.4	18.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.2	6.2	3.1	3.1	3.1	3.1	6.2	6.2	6.2	0.0	3.1
80°	6.2	6.2	0.0	3.1	0.0	0.0	3.1	0.0	3.1	0.0	6.2
82.5°	3.1	6.2	3.1	3.1	6.2	6.2	6.2	3.1	3.1	3.1	3.1
85°	0.0	3.1	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	3.1
87.5°	0.0	3.1	0.0	0.0	0.0	0.0	3.1	3.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P250263

CATALOG NUMBER: LSR8B120D010 EC8B120940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6619.6	6619.6	6619.6	6619.6
2.5°	6796.0	6799.0	6805.3	6802.2
5°	7154.8	7179.6	7191.9	7188.9
7.5°	7491.9	7535.3	7560.0	7560.0
10°	7751.8	7801.3	7838.4	7844.6
12.5°	7890.9	7946.7	7996.2	7983.8
15°	7931.2	7986.9	8036.3	8027.1
17.5°	7884.8	7940.5	7977.6	7971.4
20°	7758.0	7804.4	7841.5	7838.4
22.5°	7560.0	7600.3	7631.2	7628.0
25°	7225.9	7253.8	7278.5	7266.2
27.5°	6712.4	6721.7	6737.1	6718.7
30°	6028.9	6035.0	6041.2	6038.1
32.5°	5261.7	5258.5	5252.4	5246.2
35°	4485.3	4485.3	4488.4	4469.8
37.5°	3780.0	3776.9	3786.2	3776.9
40°	3105.7	3102.6	3114.9	3099.5
42.5°	2422.1	2431.4	2434.4	2434.4
45°	1822.0	1825.0	1828.1	1828.1
47.5°	1330.1	1333.2	1348.7	1330.1
50°	940.4	943.5	946.5	940.4
52.5°	621.7	624.9	621.7	612.4
55°	380.4	383.6	383.6	383.6
57.5°	204.1	207.3	207.3	204.1
60°	111.4	108.2	111.4	105.2
62.5°	58.8	64.9	61.9	55.6
65°	37.2	37.2	37.2	43.3
67.5°	30.9	24.7	27.9	21.6
70°	18.6	21.6	21.6	15.4
72.5°	15.4	15.4	15.4	18.6
75°	0.0	0.0	0.0	0.0
77.5°	6.2	6.2	6.2	3.1
80°	3.1	0.0	3.1	0.0
82.5°	3.1	3.1	6.2	3.1
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)